



Service Manual

XS10

10 " 2-Way Speaker System

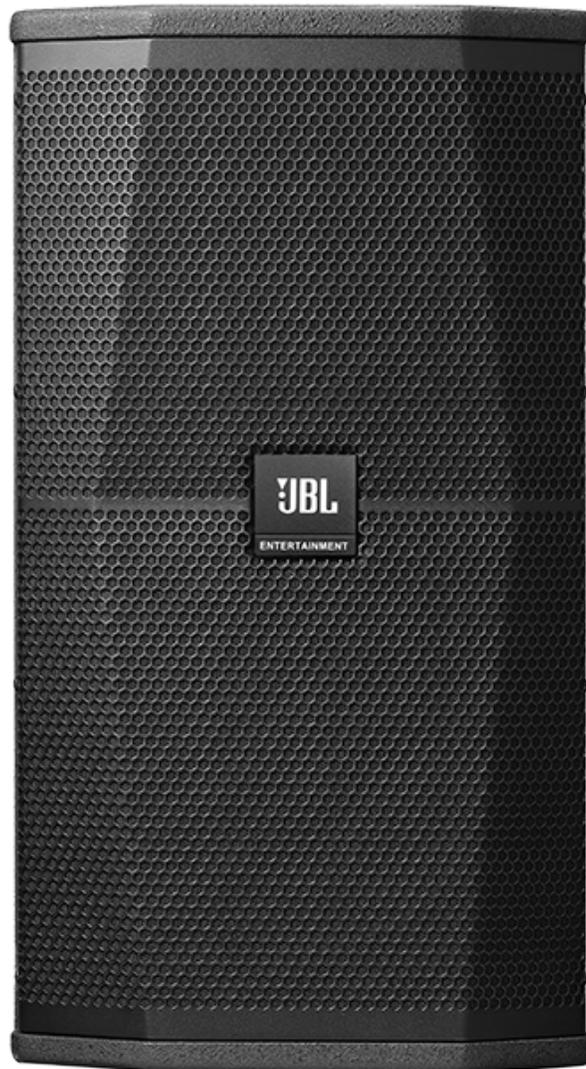




Table of Contents

Datasheets and Specifications

Exploded View Diagrams

Network Assembly Diagram

Bill of Materials





XS10

10 Inch 2-Way Speaker System

Professional Series

Key Features:

- ▶ JBL 2414H-C 1" polymer diaphragm compression driver for crystal clear vocal reproduction
- ▶ JBL designed low frequency transducer brings higher power handling and stronger bass energy
- ▶ A precision-engineered passive network critically eliminates band overlap and reveals each note detail
- ▶ 70° × 100° (H × V) horn for balanced coverage
- ▶ Rugged enclosure made from premium quality MDF
- ▶ Multiple high-strength suspension hardware for suspension installation
- ▶ Speaker pole receptacle for using with a tri-pod or subwoofer system
- ▶ High-strength edgy front grille protects the internal components from foreign objects or drink splash
- ▶ JBL Logo powered by PSL technology



Applications:

- ▶ For entertainment businesses, e.g. high-end KTV chain stores, clubs, etc.

XS10 is a vented 10-inch full-range speaker system designed by JBL Entertainment to satisfy the demand for powerful bass punch and pristine vocal at high-class KTV chain stores or clubs.

For the high notes, XS10 uses a patent JBL 2414H-C 1" polymer diaphragm compression driver not only for its crystal clear high and mid vocal but also its contribution to reliability of the entire system. For the bass part, JBL engineered a new high-efficiency transducer capable of handling high power and reproducing more low frequency energy than its peers. A precision-engineered passive network critically eliminates band overlap and does a great job bringing each sound detail into full play. Balanced coverage across the KTV room is guaranteed by a 70° × 100° (H × V) horn, whenever the speaker is positioned in landscape or portrait mode.

XS10 houses all the acoustical components in a rugged enclosure made from premium quality MDF. Layout of components and transducers is an outcome of rounds of meticulous computing and simulation in order to achieve better frequency response in a more compact cabinet. Multiple high-strength suspension hardware and one speaker pole receptacle are provided to meet different installation requirements. The edgy front grille is machined from 18-gauge steel, for protection of internal components from foreign objects and drink splash. Just like else JBL entertainment product lines, XS10 also comes with a JBL Entertainment signature – the illuminating logo powered by JBL PSL (Passive Sound Lighting) technology, which will be constantly on when the singer keeps singing to his/her mic.

Specifications:

System:

System Type:	10", 2-way, bass-reflex
Frequency Range (-10 dB) ¹ :	52 Hz – 20 kHz
Frequency Response (±3dB) ¹ :	85 Hz – 18 kHz
System Sensitivity (1w@1m) ¹ :	95 dB
Nominal Impedance:	8 Ω
Maximum SPL ² :	120 dB (126 dB peak)
Power Rating ³ :	300 W / 600 W / 1200 W (continuous / program / peak)
Coverage Pattern:	70° × 100° (H × V)

Transducer:

HF Driver:	1 × JBL 2414H-C
LF Driver:	1 × 10" woofer

Physical:

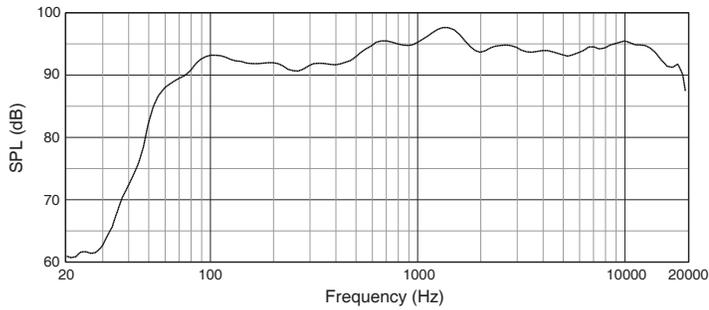
Enclosure:	Trapezoid, 15 mm, MDF
Suspension Attachment:	13 points, M10 threaded hardware; 35mm OmniMount pole mount socket
Finish:	Textured paint, black
Grille:	Powder coated, 1.2 mm perforated steel
Input Connector:	1 × Neutrik Speakon® NL4MP
Dimensions (H × W × D):	537 mm × 297 mm × 345 mm (21.1 in × 11.7 in × 13.6 in)
Net Weight:	16.3 kg (35.9 lbs)

- 1 Full space (4π) conditions
- 2 Calculated maximum SPL based on rated power handling.
- 3 IEC standard, pink noise with 6 dB crest factor for 2 hours

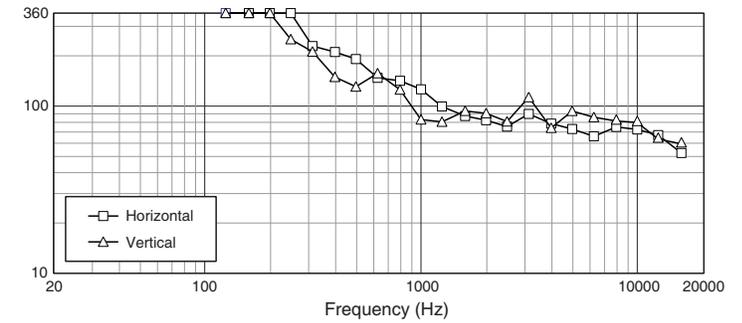
JBL continually engages in research related to product improvement. Some materials, production methods and design refinements are introduced into existing products without notice as a routine expression of that philosophy. For this reason, any current JBL product may differ in some respect from its published description, but will always equal or exceed the original design specifications unless otherwise stated.

► XS10 10 Inch 2-Way Speaker System

Frequency Response:

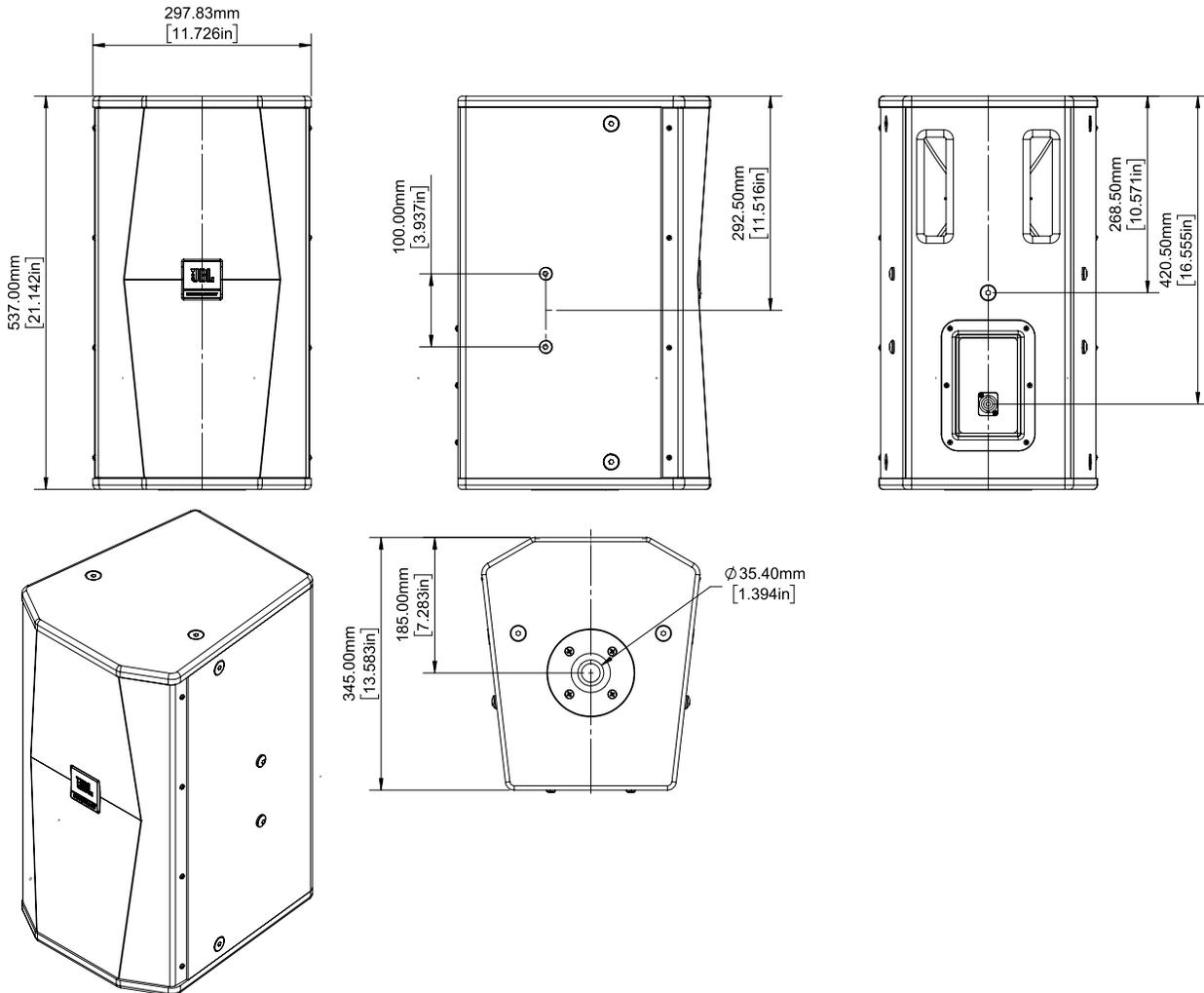


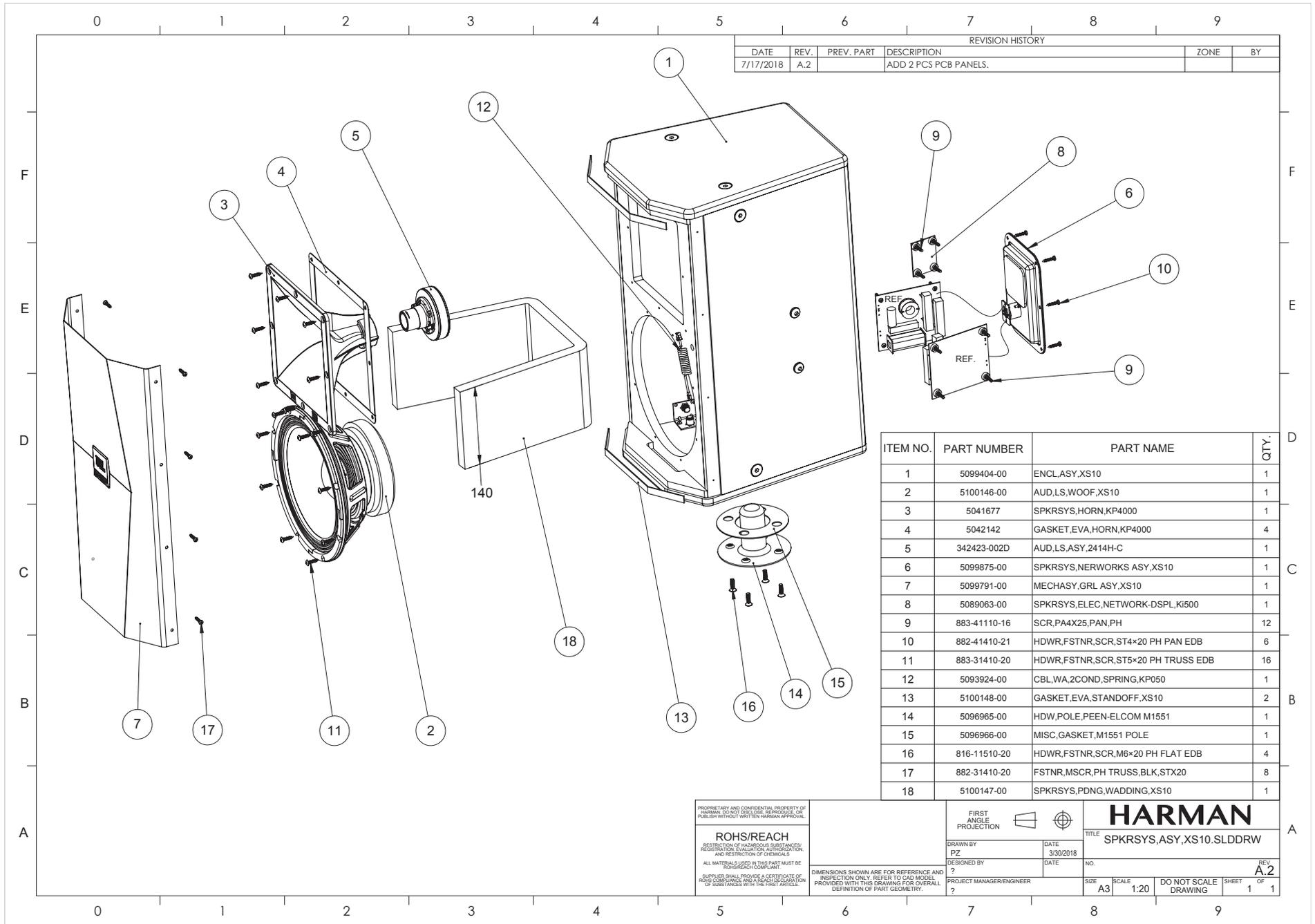
Beamwidth:

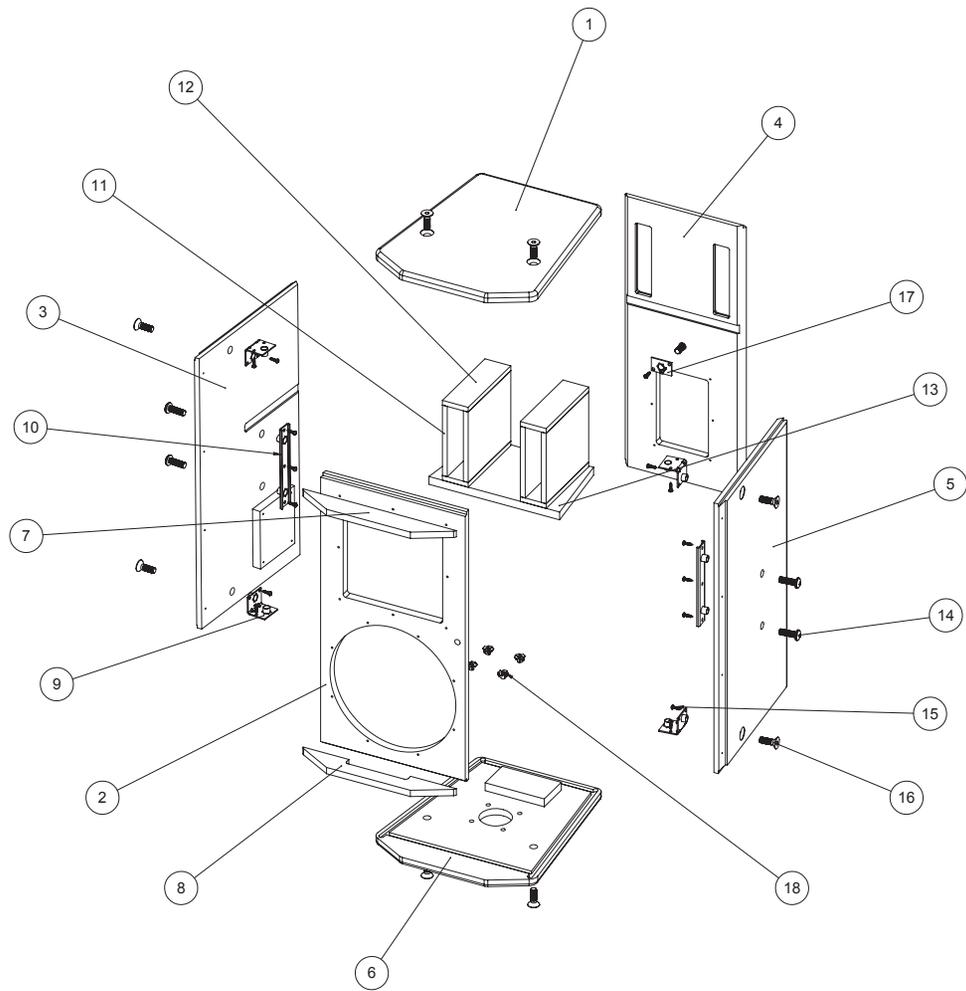


Dimensions:

Dimensions in mm (inch)



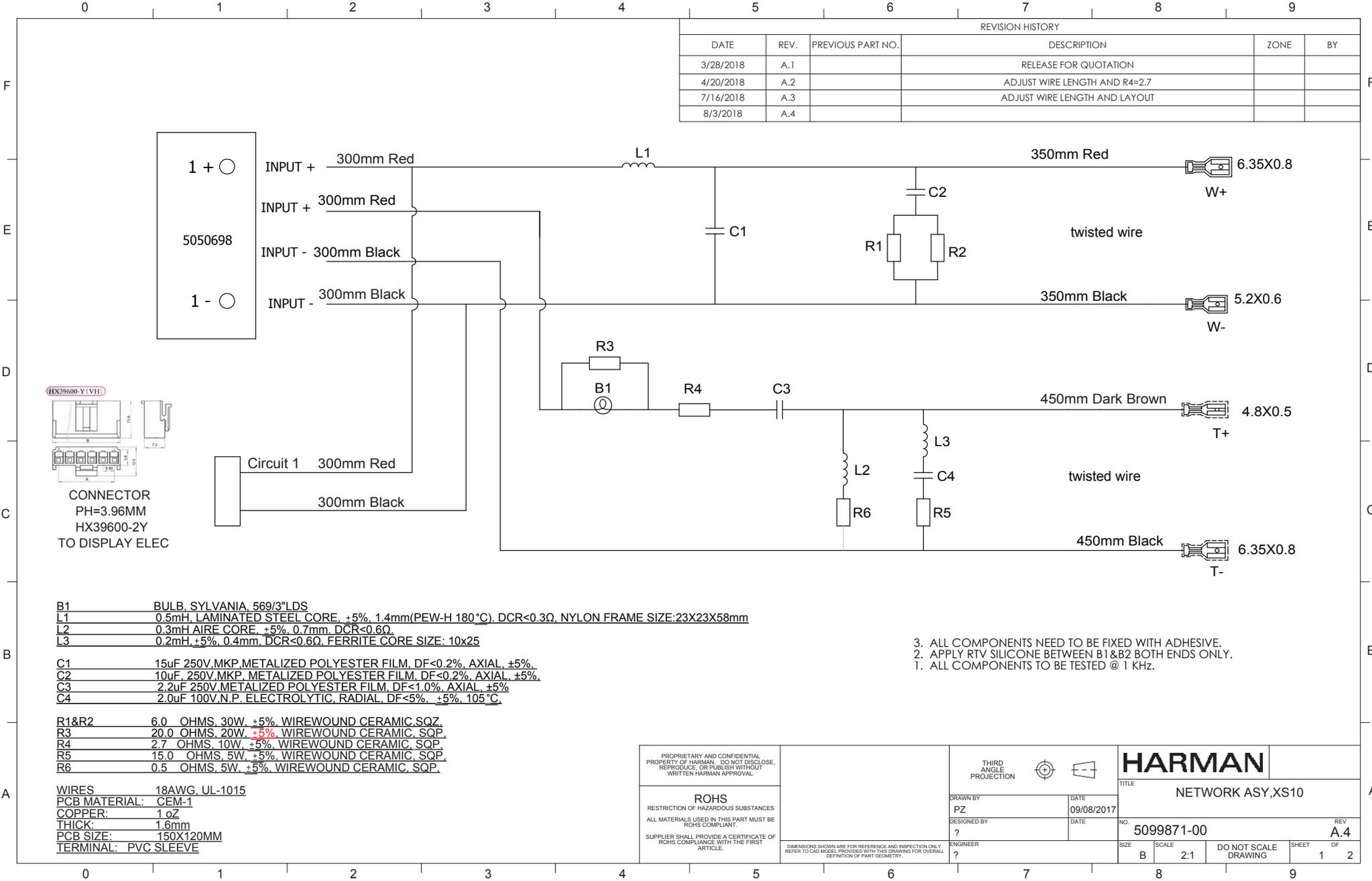




REVISION HISTORY			
DATE	REV.	PREVIOUS PART NO.	DESCRIPTION
5/17/2018	A-2		ADJUST SOME DIMENSIONS PARTER.DWG
6/25/2018	A-4		ADD NETWORK SIDE PANEL.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	5099407-00	ENCL,PNL, TOP,XS10	1
2	5099405-00	ENCL,PNL,BAFFLE,XS10	1
3	5099408-00	ENCL,PNL,SIDE,LEFT,XS10	1
4	5099410-00	ENCL,PNL,REAR,XS10	1
5	5099409-00	ENCL,PNL,SIDE,RIGHT,XS10	1
6	5099406-00	ENCL,PNL,BOTTOM,XS10	1
7	5099413-00	ENCL,STANDOFF, TOP,XS10	1
8	5099416-00	ENCL,STANDOFF, BOT,XS10	1
9	445955-001	HDWR,BRKT,90DEGREE ASY,KP600	4
10	445228-001	100mm Bracket	2
11	5099414-00	ENCL,PNL,PORT, LONG,XS10	4
12	5099415-00	ENCL,PNL,PORT, SHORT,XS10	4
13	5099411-00	ENCL,PNL,CENTER,XS10	1
14	5061435	SCR,M10x30,TRUSS,HEX	4
15	882-41410-15	HDWR,FASTNR,SCR,ST4x15 PH,PAN, BLK ZINC	24
16	818-13710-30	HDWR,FASTNR,SCR,M10x30 HED, FLAT, EDB	9
17	445956-001	HDWR,BRKT,SINGLE POINT ASY,KP600	1
18	5041458	FSTNR,NUT,T-NUT,M6,HOOK PRONG	4

ROHS RESTRICTION OF HAZARDOUS SUBSTANCES ALL DIMENSIONS ARE IN MILLIMETERS ALL DIMENSIONS APPLY AFTER FINISH DIMENSIONS ARE UNLESS OTHERWISE SPECIFIED		TOLERANCES UNLESS OTHERWISE SPECIFIED X ±0.30 mm ALL DIMENSIONS ARE IN MILLIMETERS ALL DIMENSIONS APPLY AFTER FINISH		TRIMS PROTECTION DATE: 5/17/2018 DRAWN BY: PZ CHECKED BY: PZ DESIGNED BY: PZ		HARMAN ENCL.ASY.XS10 5099404-00 A.4 14 1 13	
---	--	--	--	--	--	--	--



Refer to the corresponding Service Bill of Materials (SBOM) to order parts stocked by Harman.